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(71)Applicant : TOSHIBA CORP

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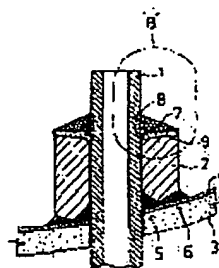
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(54) WELDED STRUCTURE OF NUCLEAR REACTOR PRESSURE VESSEL AND CONTROL ROD HOUSING

(57)Abstract:

PURPOSE: To intend an improvement of a reliability for a stress corrosion cracking by pad-welding with a welding metal a whole upper end surface of a stub tube which is provided by welding to an inner surface of a bottom of a nuclear pressure vessel, to weld the tube to a control rod housing.

CONSTITUTION: A stub tube 2 is welded to a nuclear reactor pressure vessel 3 at its inner and outer circumferences with a welding metal 5 and 6. Also, a housing 1 of a control rod drive mechanism is welded to the stub tube 2 with a welding metal 7. This welding metal 7 is pad-welded so that a whole upper surface of the stub tube 2 is covered by the padding. With this process, a thermally affected part at a side of the stub tube 2 can be moved to a part where a tensile stress is the minimum, to lessen a probability of a stress corrosion cracking, and a highly reliable welded structure of the housing 1 and the stub tube 2 can be obtained.



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WELDED STRUCTURE OF NUCLEAR REACTOR PRESSURE VESSEL AND CONTROL ROD HOUSING

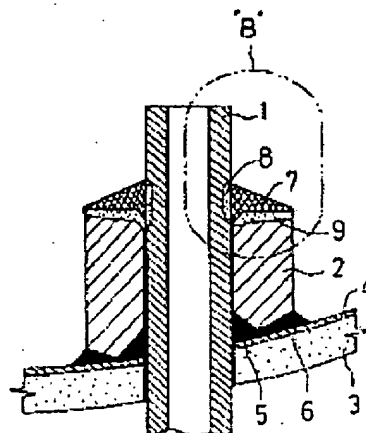
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Abstract of JP2107996

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